

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of the claims in the application:

Listing of Claims:

1. (Original) A computer-readable medium comprising software for a video surveillance system, comprising code segments for operating the video surveillance system based on video primitives.
2. (Original) A computer-readable medium as in claim 1, wherein the code segments for operating the video surveillance system comprise:
code segments for extracting video primitives; and
code segments for extracting event occurrences from the video primitives.
3. (Original) A computer-readable medium as in claim 2, wherein the event occurrences are extracted using event discriminators.
4. (Original) A computer-readable medium as in claim 2, further comprising code segments for archiving the extracted video primitives.
5. (Original) A computer-readable medium as in claim 2, further comprising code segments for undertaking a response based on extracted event occurrences.
6. (Original) A computer-readable medium as in claim 5, wherein the response comprises initiating another sensor system.

7. (Original) A computer-readable medium as in claim 1, further comprising code segments for calibrating the video surveillance system.

8. (Original) A computer-readable medium as in claim 7, wherein the code segments for calibrating comprise code segments for self-calibrating the video surveillance system.

9. (Original) A computer-readable medium as in claim 8, wherein the code segments for self-calibrating comprise:

- code segments for detecting at least one object in a source video; and
- code segments for tracking the object.

10. (Original) A computer-readable medium as in claim 9, wherein the code segments for detecting at least one object comprise:

- code segments for detecting at least one object via motion of the object; and
- code segments for detecting at least one object via change in a background model.

11. (Original) A computer-readable medium as in claim 7, wherein the code segments for self-calibrating comprise:

- code segments for identifying trackable areas; and
- code segments for identifying typical sizes of typical objects.

12. (Original) A computer-readable medium as in claim 7, wherein the code segments for calibrating comprise:

- code segments for manual calibration;
- code segments for semi-automatic calibration; and
- code segments for automatic calibration.

13. (Original) A computer-readable medium as in claim 1, further comprising code segments for tasking the video surveillance system with event discriminators.

14. (Original) A computer-readable medium as in claim 13, wherein the code segments for tasking comprise code segments for identifying at least one object.

15. (Original) A computer-readable medium as in claim 13, wherein the code segments for tasking comprise code segments for identifying at least one spatial area.

16. (Original) A computer-readable medium as in claim 13, wherein the code segments for tasking comprise code segments for identifying at least one temporal attribute.

17. (Original) A computer-readable medium as in claim 13, wherein the code segments for tasking identify at least one interaction.

18. (Original) A computer-readable medium as in claim 13, wherein the code segments for tasking identify at least one alarm.

19. (Original) A computer-readable medium as in claim 1, wherein the video primitives are from at least one of a video sensor and another sensor.

20. (Original) A computer-readable medium as in claim 1, wherein the video primitives are retrieved from an archive of video primitives.

21. (Original) A computer system comprising the computer-readable medium of claim 1.

22. (Original) A computer-readable medium comprising software for a video surveillance system, comprising:

code segments for accessing archived video primitives; and

code segments for extracting event occurrences from accessed archived video primitives.

23. (Original) A computer-readable medium as in claim 22, wherein the event occurrences are extracted using event discriminators.

24. (Original) A computer-readable medium as in claim 22, further comprising code segments for undertaking a response based on extracted event occurrences.

25. (Original) A method comprising the step of operating a video surveillance system based on video primitives.

26. (Original) A method comprising the steps of:

accessing archived video primitives; and

extracting event occurrences from accessed video primitives.

27. (New) An apparatus for video surveillance, wherein the apparatus is adapted to perform video surveillance based on video primitives.

28. (New) The apparatus of claim 27, wherein the apparatus comprises application-specific hardware to emulate a computer and/or software.